Exhibit

## **EXHIBIT A**

## Intertrust v. MS: JCCS Claim Chart

U.S. Patent No. 6,253,193, Asserted Claim 1

	'193 Claim 1	U.S. Patent No. 6,253,193, Asserted IT Construction	MS Construction
1.	1. A method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE.  (See item #86 for Microsoft's construction of VDE.)
2.	file including music,		
3.		secure: One or more mechanisms are employed to prevent, detect or discourage misuse of or interference with information or processes. Such mechanisms may include concealment, Tamper Resistance, Authentication and access control. Concealment means that it is difficult to read information (for example, programs may be encrypted). Tamper Resistance and Authentication are separately defined (see item #67 and item #27, respectively, below). Access control means that access to information or processes is limited on the basis of authorization. Security is not absolute, but is designed to be sufficient for a particular purpose.	secure: (1) A state in which all users of a system are guaranteed that all information, processes, and devices within the system, shall have their availability, secrecy, integrity, authenticity and nonrepudiation maintained against all of the identified threats thereto.  (2) "Availability" means the property that information is accessible and usable upon demand by authorized persons, at least to the extent that no user may delete the information without authorization.  (3) "Secrecy," also referred to as confidentiality, means the property that information (including computer processes) is not made available or disclosed to unauthorized persons or processes.  (4) "Integrity" means the property that information has not been altered either intentionally or accidentally.  (5) "Authenticity" means the property that the characteristics asserted about a person, device, program, information, or process are genuine and timely, particularly as to identity, data integrity, and origin integrity.  (6) "Nonrepudiation" means the property that a sender of information cannot deny its origination and that a recipient of information cannot deny its receipt.

	'193 Claim 1	IT Construction	MS Construction
4.	storing information	secure: see item #3 above	secure: see item #3 above
••	associated with said		
	digital file in a	budget: Information specifying a	budget: (1) A unique type of
	secure database	limitation on usage.	"method" that specifies a
	stored on said first	<b>3</b>	decrementable numerical limitation
	device,	control: Information and/or	on future Use (e.g., copying) of
	said information	programming controlling operations	digital information and how such Use
	including at least	on or use of resources (e.g., content)	will be paid for, if at all.
	one budget control	including (a) permitted, required or	(2) A "method" is a collection of
	and	prevented operations, (b) the nature	basic instructions, and information
	and	or extent of such operations or (c) the	related to basic instructions, that
		consequences of such operations.	provides context, data, requirements,
		consequences of such operations.	and/or relationships for use in
			performing, and/or preparing to
			perform, basic instructions in relation
			to the operation of one or more
			electronic appliances.
			PF
			control: (1) Independent, special-
			purpose, Executable, which can
			execute only within a Secure
			Processing Environment (see below)
	;	· ·	(2) Each VDE Control is a
			Component Assembly dedicated to
			particular activity (e.g., editing,
			modifying another Control, a user-
			defined action, etc.), particular
			user(s), and particular protected
			information, and whose satisfactory
			execution is necessary to Allowing
			(see below) that activity.
		·	(3) Each separate information Access
			(see below) or Use is independently
			Controlled by independent VDE
			Control(s).
		·	(4) Each VDE Control is assembled
			within a Secure Processing
			Environment from independently
			deliverable modular components
			(e.g., Load Modules (see below) or
			other Controls), dynamically in
			response to an information Access or
			Use Request.
			(5) The dynamic assembly of a
			Control is directed by a "blueprint"
			Record (see below) (put in place by
			one or more VDE users) Containing
			control information identifying the
			exact modular code components to b

'193 Claim 1	IT Construction	MS Constructi n
·		assembled and executed to govern
		(i.e., Control) this particular activity
	•	on this particular information by this
		particular user(s).
		(6) Each Control is independently
		assembled, loaded and delivered vis-
		à-vis other Controls.
		(7) Control information and Controls
		are extensible and can be configured
		and modified by all users, and
-		combined by all users with any other
		VDE control information or Controls
		(including that provided by other
		users), subject only to "senior" user
	•	Controls.
		(8) Users can assign control
		information (including alternative
		control information) and Controls to
[		an arbitrarily fine, user-defined
		portion of the protected information,
		such as a single paragraph of a
	•	document, as opposed to being
·		limited to file-based controls.
1		(9) VDE Controls reliably limit Use
		of the protected information to only
		authorized activities and amounts.
	·	
	·	For the purposes of the construction
		of "Control," a "Secure Processing
		Environment" is defined as: A
		Secure Processing Environment is
		uniquely identifiable, self-contained,
	1	non-circumventable, and trusted by
		all other VDE nodes to protect the
		availability, secrecy, integrity and
		authenticity of all information
		identified in the patent application as
		being protected, and to guarantee that
	1	such information will be accessed and
		Used only as expressly authorized by
		the associated VDE Controls, and to
		guarantee that all requested reporting
		of and payments for protected
		information use will be made. A
		Secure Processing Environment is
		formed by, and requires, a Secure
		Processing Unit having a hardware
		Tamper Resistant Barrier
		encapsulating a processor and internal
	CLAIM CONSTRUCTION STAT	

 '193 Claim 1	IT Construction	MS Construction
		Secure memory. The Tamper Resistant Barrier prevents all unauthorized interference, removal, observation, and other Use of the information and processes within it.
		For the purposes of the construction of "Control," "Allowing" is defined as: Actively permitting an action that otherwise cannot be taken (i.e., is prohibited) by any user, process, or device. In VDE, an action is allowed only through execution (within a Secure Processing Environment) of the VDE Control(s) assigned to the particular action request, and satisfaction of all requirements imposed by such execution.
		For the purposes of the construction of "Control," "Access" is defined as: To satisfactorily perform the steps necessary to obtain something so that it can be Used in some manner (e.g., for information: copied, printed, decrypted, encrypted, saved, modified, observed, or moved, etc.). In VDE, access to protected information is achieved only through execution (within a Secure Processing Environment) of the VDE Control(s) assigned to the particular "access" request, satisfaction of all requirements imposed by such execution, and the Controlled opening of the Secure Container Containing the information.
		For the purposes of the construction of "Control," a "Load Module" is defined as: An Executable, modular unit of machine code (which may include data) suitable for loading into memory for execution by a processor. A load module is encrypted (when not within a secure processing unit) and has an Identifier that a calling process must provide to be able to use the load module. A load module is combinable with other load modules,

	(102 (1) 1	YT Construction	MS Constructi n
	<u>'193 Claim 1</u>	<u>IT Construction</u>	and associated data, to form Executable Component Assemblies. A load module can execute only in a VDE Protected Processing Environment. Library routines are not load modules and dynamic link libraries are not load modules.
		·	For the purposes of the construction of "Control," a "Record" is defined as: A data structure that is a collection of fields (elements), each with its own name and type. Unlike an array, whose elements are accessed using an index, the elements of a record are accessed by name. A record can be accessed as a collective unit of elements, or the elements can be accessed individually.
5.	at least one copy control,	copy: To reproduce. The reproduction must be usable, may incorporate all of the original item or only some of it, and may involve some changes to the item as long as the essential nature of the content remains unchanged.  control: see item #4 above	copy: (1) To reproduce all of a Digital File (see below) or other complete physical block of data from one location on a storage medium to another location on the same or different storage medium, leaving the original block of data unchanged, such that two distinct and independent objects exist.  (2) Although the layout of the data values in physical storage may differ from the original, the resulting "copy" is logically indistinguishable from the original.  (3) The resulting "copy" may or may not be encrypted, ephemeral, usable, or accessible.
Walking the control of the control o			For the purposes of the construction of "Copy," a "Digital File" is defined as: A named, static unit of storage allocated by a "file system" and Containing digital information. A digital file enables any application using the "file system" to randomly access its contents and to distinguish it by name from every other such unit. A copy of a digital file is a separate digital file. A "file system" is the portion of the operating system

	<b>'193 Claim 1</b>	IT Construction	MS Construction
			that translates requests made by application programs for operations on "files" into low-level tasks that can control storage devices such as disk drives.
		•	control: see item #4 above
6.	said at least one budget control	budget: see item #4 above	budget: see item #4 above
	including a budget specifying the	control: see item #4 above	control: see item #4 above
	number of copies which can be made of said digital file;	a budget specifying the number of copies which can be made of said digital file: Normal English, incorporating the separately defined	a budget specifying the number of copies which can be made of said digital file: A Budget explicitly stating the total number of copies
		terms: a Budget stating the number of copies that can be made of the digital file referred to earlier in the claim.	(whether or not decrypted, long-lived, or accessible) that (since creation of the <b>Budget</b> ) are authorized to be made of the <i>Digital File</i> by any and
	·		all users, devices, and processes. No process, user, or device is able to make another copy of the <i>Digital File</i> once this number of copies has been made.
			For the purposes of the construction of this phrase, "Digital File" is defined as set forth in item #5, above.
7.	and said at least one	copy: see item #5 above	copy: see item #5 above
	copy control controlling the copies made of said	control: see item #4 above	control: see item #4 above
	digital file;	controlling: Normal English: exercising authoritative or dominating influence over; directing.	controlling: (1) Reliably defining and enforcing the conditions and requirements under which an action that otherwise cannot be taken, will
		controlling the copies made of said digital file: The nature of this operation is further defined in later claim elements. In context, the copy control determines the conditions under which a digital file may be Copied and the copied file stored on a second device.	be Allowed, and the manner in which it may occur. Absent verified satisfaction of those conditions and requirements, the action cannot be taken by any user, process or device.  (2) In VDE, an action is Controlled through execution of the applicable VDE Control(s) within a VDE Secure Processing Environment.  (3) More specifically, in VDE,
			Controlling is effected by use of VDE Controls, VDE Secure Containers, and VDE foundation

'193 Claim 1	IT Construction	MS Constructi n
		(including VDE Secure Processing Environment, "object registration," and other mechanisms for allegedly individually ensuring that specific Controls are enforced vis-à-vis specific objects (and their content at an arbitrary granular level) and specific "users").
		For the purposes of the construction of "Control (v.)" et al, "Allowed" and "Secure Processing Environment" are defined as set forth in item #4, above.
		controlling the copies made of said digital file: Controlling Uses of and Accesses to all copies of the Digital File, by all users, processes, and devices, by executing each of the recited "at least one" Copy Control(s) within VDE Secure Processing Environment(s). Each Control governs (Controls) only one action, which action may or may not differ among the different "at least one" Controls. All Uses and Accesses are prohibited and incapable of occurring except to the extent Allowed by the "at least one" Copy Control(s).
		For the purposes of the construction of this phrase, "Secure Processing Environment," "Access" and "Allowed" are defined as set forth in item #4, above.

	<u>'193 Claim 1</u>	IT Construction	MS Constructi n
8.	determining whether said digital	copied (copy): see item #5 above	copied (copy): see item #5 above
	file may be copied and stored on a	control: see item #4 above	control: see item #4 above
	second device		·
	based on at least said copy control;		
9.	if said copy control allows at least a	copied (copy): see item #5 above	copied (copy): see item #5 above
	portion of said	control: see item #4 above	control: see item #4 above
	digital file to be copied and stored		
	on a second device,		
10.	100	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
11.	•		
	a portion of said		
	digital file to a second device		
1			
1	including a memory and an audio and/or		
l	video output;		
12.			
12.	file in said memory		<b>j</b>
	of said second		·
	device; and	÷	
13.			
	said music through		
	said audio output.		

	'193 Claim 11	IT Construction	MS Construction
1	11. A method	The claim contains no requirement of	Claim as a whole: The recited
14.	comprising:	a VDE.	method is performed within a VDE.
	comprising.	u (22.	(See item #86 for Microsoft's
			construction of VDE.)
15	receiving a digital		
13.	file;		·
16	storing said digital	secure: see item #3 above	secure: see item #3 above
10.	file in a first secure	<u>secure</u> . see nem ne de e	
	memory of a first		
	device;		
17.	storing information	secure: see item #3 above	secure: see item #3 above
1''	associated with	:	·
	said digital file in a	control: see item #4 above	control: see item #4 above
	secure database		
	stored on said first		·
	device,		*
	said information	·	
	including a first	·	
	control;		
18.	determining	copied (copy): see item #5 above	copied (copy): see item #5 above
	whether said digital		
	file may be copied	control: see item #4 above	control: see item #4 above
	and stored on a		į
	second device		
	based on said first		
	control, said		·
1	determining step		<u> </u>
	including		
	identifying said		
	second device and		
	determining		
19.	whether, said first control	control: see item #4 above	control: see item #4 above
19.	allows transfer of	Control. See Item # 1 acc. c	
	said copied file to	copied (copy): see item #5 above	copied (copy): see item #5 above
	said second device,		
ł	said determination		
1	based at least in		
	part on the features		
	present at the		
	device to which		
	said copied file is		
1	to be transferred;		<u> </u>
	to be transferred;	<u> </u>	

	'193 Claim 11	IT Construction	MS Construction
20.	if said first contr 1	control: see item #4 above	control: see item #4 above
	allows at least a		
	portion of said	copied (copy): see item #5 above	copied (copy): see item #5 above
	digital file to be		·
	copied and stored		
	on a second device,		
21.		copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said	·	
	digital file;		
22.		·	
	a portion of said	•	
	digital file to a	·	
	second device	·	
	including a		
	memory and an		
	audio and/or video		
	output;		
23.			
	file in said memory		
	of said second		
	device; and		
24.			
	digital file through		
i	said output.		]



6. Patent No. 6,253,193, Asserted

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	'193 Claim 15	IT Construction	MS Construction
25.	15. A method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #93 for Microsoft's construction of VDE.)
26.	receiving a digital file;		
27.	an authentication step comprising:	authentication: Identifying (e.g., a person, device, organization, document, file, etc.). Includes uniquely identifying or identifying as a member of a group.	authentication: To establish that the following asserted characteristics of something (e.g., a person, device, organization, document, file, etc.) are genuine: its identity, its data integrity, (i.e., it has not been altered) and its origin integrity (i.e., its source and time of origination).
28.	accessing at least one identifier associated with a first device or with a user of said first device; and	identifier: Information used to identify something or someone (e.g., a password).  In this definition, "identify" means to establish the identity of or to ascertain the origin, nature, or definitive characteristics of; includes identifying as an individual or as a member of a group.	identifier: Any text string used as a label naming an individual instance of what it <i>Identifies</i> (see below)  For the purpose of the construction of "Identifier," " <i>Identify</i> " is defined as: To establish as being a particular instance of a person or thing.
29.	determining whether said identifier is associated with a device and/or user authorized to store said digital file;	identifier: see item #28 above	identifier: see item #28 above
30.	storing said digital file in a first secure memory of said first device, but only if said device and/or user is so authorized, but not proceeding with said storing if said device and/or user is not authorized;	secure: see item #3 above	secure: see item #3 above
31.	storing information associated with said digital file in a secure database stored on said first	secure: see item #3 above  control: see item #4 above	secure: see item #3 above  control: see item #4 above

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	'193 Claim 15	IT Construction	MS Construction
	device, said		
	information		
	including at least		
	one control;		
32.	determining	copied (copy): see item #5 above	copied (copy): see item #5 above
	whether said digital	_	,
	file may be copied	control: see item #4 above	control: see item #4 above
	and stored on a		
	second device		
	based on said at		
	least one control;		
33.	if said at least one	control: see item #4 above	control: see item #4 above
	control allows at		
	least a portion of	copied (copy): see item #5 above	copied (copy): see item #5 above
	said digital file to		
	be copied and		·
	stored on a second		
l	device,		
34.	copying at least a	copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said		
	digital file;		
35.			
	a portion of said	1	·
1	digital file to a		-
1	second device		
	including a memory		
	and an audio and/or		·
	video output;		
36.	storing said digital		
	file in said memory		·
1	of said second		•
	device; and		
37.	rendering said		· ·
	digital file through		
1	said output.		



. Patent No. 6,253,193, Asserted

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$\prod$	'193 Claim 19	IT Construction	MS Construction
38.	19. A method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE. (See item #86 for Microsoft's construction of VDE.)
39.	receiving a digital file at a first device;		
40.	establishing communication between said first device and a clearinghouse located at a location remote from said first device;	clearinghouse: A provider of financial and/or administrative services for a number of entities; or an entity responsible for the collection, maintenance, and/or distribution of materials, information, licenses, etc.	clearinghouse: (1) A computer system that provides intermediate storing and forwarding services for both content and audit information, and which two or more parties trust to provide its services independently because it is operated under constraint of VDE security. (2) "Audit information" means all information created, stored, or reported in connection with an "auditing" process. "Auditing" means tracking, metering and reporting the usage of particular information or a particular appliance.
41.	said first device obtaining authorization information including a key from said clearinghouse;	clearinghouse: see item #40 above	clearinghouse: see item #40 above
42.	said first device using said authorization information to gain access to or make at least one use of said first digital file, including using said key to decrypt at least a portion of said first digital file; and	use: Normal English: to put into service or apply for a purpose, to employ.	use: (1) To use information is to perform some action on it or with it (e.g., copying, printing, decrypting, encrypting, saving, modifying, observing, or moving, etc.). (2) In VDE, information Use is Allowed only through execution of the applicable VDE Control(s) and satisfaction of all requirements imposed by such execution.  For the purposes of the construction of "Use," "Allowed" is defined as set forth in item #4, above.
43.	control from said	control: see item #4 above	control: see item #4 above clearinghouse: see item #40 above
	clearinghouse at said first device;	clearinghouse: see item #40 above	creamingnouse: see item #40 above

		IT C. A. A.	MC Construction
	<u>'193 Claim 19</u>	IT Construction	MS Construction
44.		•	
i	digital file in a		
	memory of said		
	first device;		
45.	using said first	control: see item #4 above	control: see item #4 above
	control to		
	determine whether	copied (copy): see item #5 above	copied (copy): see item #5 above
	said first digital file		·
	may be copied and		
	stored on a second	•	
	device;		
46.	if said first control	control: see item #4 above	control: see item #4 above
	allows at least a		
	portion of said first	copied (copy): see item #5 above	copied (copy): see item #5 above
	digital file to be		
	copied and stored		
	on a second device,		
47.		copying (copy): see item #5 above	copying (copy): see item #5 above
	portion of said first	·	
	digital file;		
48.	transferring at least	<del>"</del>	
ļ	a portion of said	÷	
l	first digital file to a		
	second device		
	including a	,	
Ì	memory and an		
İ	audio and/or video		
İ	output;		
49.	storing said first		
	digital file portion		
	in said memory of		
1	said second device;		
	and		
50.	rendering said first		
	digital file portion		
	through said		·
1	output.		

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6. Patent No. 6,185,683, Asserted

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	'683 Claim 2	IT Construction	MS Construction
51.	2. A system	The claim contains no requirement	Claim as a Whole: The "system" is a
31.	including:	of a VDE.	VDE. (See item #86 for Microsoft's
	moraag.		construction of VDE.)
52	a first apparatus		
52.	a first apparatus		
1	including,	control: see item #4 above	control: see item #4 above
53.	user controls,	control. See Relli #4 above	CONTON. GOO HOM # 1 200 VO
54.	a communications		
	port,		
55.	a processor,		
56.			4 : (1) A VIDE C
57.	a first secure	secure container: A container that is	secure container: (1) A VDE Secure
	container	Secure.	Container is a self-contained, self-
			protecting data structure which (a)
		In this definition, "container" means	encapsulates information of arbitrary
		a digital file containing linked and/or	size, type, format, and organization,
		embedded items.	including other, nested, containers,
			(b) cryptographically protects that
'			information from all unauthorized
			Access and Use, (c) provides
1			encrypted storage management
			functions for that information, such
1			as hiding the physical storage
			location(s) of its protected contents,
			(d) permits the association of itself or
			its contents with Controls and
ĺ		,	control information governing
			(Controlling) Access to and Use
			thereof, and (e) prevents such Use or
			Access (as opposed to merely
			preventing decryption) until it is
			"opened."
		:	(2) A Secure Container can be
		·	opened only as expressly <i>Allowed</i> by the associated <b>VDE Control(s)</b> , only
			•
	1		within a Secure Processing Environment, and only through
			decryption of its encrypted header.
			(3) A Secure Container is not
			directly accessible to any non-VDE
			or user calling process. All such calls
1			are intercepted by <b>VDE</b> .
			(4) The creator of a Secure
			Container can assign (or allow
		·	others to assign) control information
			to any arbitrary portion of a Secure
			Container's contents, or to an empty
L	<u></u>		Secure Container (to govern

		- TOTAL - 1	MC Construction
	<u>'683 Claim 2</u>	IT Construction	MS Construction
	005 Claim 2	TI Constitución.	(Control) the later addition of contents to the container, and Access to or Use of those contents).  (5) A container is not a Secure Container merely because its contents are encrypted and signed. A Secure Container is itself Secure.  (6) All VDE-protected information (including protected content, information about content usage, content-control information, Controls, and Load Modules) is encapsulated within a Secure Container whenever stored outside a Secure Processing Environment or secure database.
			For the purposes of the construction of "Secure Container," "Secure Processing Environment," "Load Module," "Access" and "Allow" are defined as set forth in item #4, above.
58.	containing a governed item,	containing: Normal English: having within or holding. In the context of an element contained within a data structure (e.g., a secure container), the contained element may be either directly within the container or the container may hold a reference indicating where the element may be found.	containing: Physically (directly) storing within, as opposed to addressing (i.e., referring to something by the explicitly identified location where it is stored, without directly storing it).
59.	the first secure container governed item being at least in part encrypted; the first secure container having been received from a second apparatus;	secure container: see item #57 above	secure container: see item #57 above

$\neg$	'683 Claim 2	IT Construction	MS Construction
60.	a first secure	secure container: see item #57 above	secure container: see item #57 above
00.	container rule		
	at least in part	aspect: Feature, element, property or	aspect: An aspect of an environment
	governing an	state.	is a persistent element or property of
	aspect of access to		that environment that can be used to
	or use of said first	use: see item #42 above	distinguish it from other
	secure container		environments.
	governed item,		
	the first secure		use: see item #42 above
	container rule, the		
	first secure		
	container rule		
	having been		
	received from a		
	third apparatus	·	
	different from said		
	second apparatus;		
	and	1	
61.	hardware or	secure container: see item #57 above	secure container: see item #57 above
	software used for		
	receiving and	contain (containing): see item #58	contain (containing): see item #58
	opening secure	above	above
	containers,		
	said secure	·	
	containers each		
	including the		
	capacity to contain		
	a governed item, a		
	secure container	·	
	rule being	·	
	associated with		
	each of said secure	{ }	
	containers;	a de la constitución de la const	protected processing environment:
62.		protected processing environment: An environment in which processing	(1) A uniquely identifiable, self-
	processing	and/or data is at least in part	contained computing base trusted by
	environment at	protected from tampering. The level	all VDE nodes to protect the
	least in part	of protection can vary, depending on	availability, secrecy, integrity and
	protecting information	the threat.	authenticity of all information
	contained in said	the threat.	identified in the February, 1995,
	1 -	In this definition, "environment"	patent application as being protected,
	protected	means capabilities available to a	and to guarantee that such
	processing environment from	program running on a computer or	information will be Accessed and
	tampering by a user	other device or to the user of a	Used only as expressly authorized by
	of said first	computer or other device.	VDE Controls.
	apparatus,	Depending on the context, the	(2) At most VDE nodes, the
	apparatus,	environment may be in a single	<b>Protected Processing Environment</b>
		device (e.g., a personal computer) or	is a Secure Processing Environment
1		may be spread among multiple	which is formed by, and requires, a
	1	TARA CONCERNICTION STATEME	

		7.50.5
<u>'683 Claim 2</u>	IT Construction	MS Construction
	devices (e.g., a network).	hardware Tamper Resistant Barrier
		encapsulating a special-purpose
	contained (containing): see item #58	Secure Processing Unit having a
	above	processor and internal secure
		memory. "Encapsulated" means
		hidden within an object so that it is
		not directly accessible but rather is
	·	accessible only through the object's
		restrictive interface.
		(3) The Tamper Resistant Barrier
		prevents all unauthorized (intentional
		or accidental) interference, removal,
		observation, and use of the
		information and processes within it,
		by all parties (including all users of
	·	the device in which the Protected
		Processing Environment resides),
		except as expressly authorized by
		VDE Controls.
		(4) A Protected Processing
		Environment is under Control of
	·	Controls and control information
		provided by one or more parties, rather than being under Control of
		the appliance's users or programs.
		(5) Where a VDE node is an
		established financial Clearinghouse,
		or other such facility employing
		physical facility and user-identity
		Authentication security procedures
		trusted by all VDE nodes, and the
		VDE node does not Access or Use
		VDE-protected information, or
		assign VDE control information, then
		the Protected Processing
		Environment at that VDE node may
		instead be formed by a general-
•		purpose CPU that executes all VDE
		"security" processes in protected
		(privileged) mode.
		(6) A Protected Processing
		Environment requires more than just
		verifying the integrity of Digitally
		Signed Executable programming
		prior to execution of the
		programming; or concealment of the
		program, associated data, and
		execution of the program code; or use
		of a password as its protection

	'683 Claim 2	IT Construction	MS Construction
-	003 Claim 2	TT COMBOLIST	mechanism.
			For the purposes of the construction of "Protected Processing Environment," "Secure Processing Environment" and "Access" are defined as set forth in item #4, above.  contained (containing): see item #58 above
(2	asid protected	protected processing environment:	protected processing environment:
63.	said protected processing	see item #62 above	see item #62 above
	environment including hardware or software used for applying said first secure container rule and a second secure container rule in combination to at least in part govern at least one aspect of access to or use of a governed item	secure container: see item #57 above aspect: see item #60 above use: see item #42 above contained (containing): see item #58 above	secure container: see item #57 above aspect: see item #60 above use: see item #42 above contained (containing): see item #58 above
	contained in a		
	secure container;		
L	and		#57 -1
64.	hardware or software used for transmission of secure containers to other apparatuses or for the receipt of	secure container: see item #57 above	secure container: see item #57 above
	secure containers from other apparatuses.		

3. Patent No. 6,157,721, Asserted	<b>U</b> m

	'721 Claim 1	IT Construction	MS Construction
65.	1. A security method comprising:	The claim contains no requirement of a VDE.	Claim as a whole: The recited method is performed within a VDE.  (See item #86 for Microsoft's construction of VDE.)
66.	digitally signing a first load module with a first digital signature designating the first load module for use by a first device class;	digital signature: A digital value, verifiable with a key, that can be used to determine the source and/or integrity of a signed item (e.g., a file, program, etc.).  Digitally signing is the process of creating a digital signature.  designating: Normal English: indicating, specifying, pointing out or characterizing.  use: see item #42 above device class: A group of devices which share at least one attribute.	1 `
			operation on a block of data using some secret. The string can be generated only by an entity that knows the secret, and hence provides

	'721 Claim 1	IT Construction	MS Construction
			evidence that the entity must have generated it.
			designating: Designating something for a particular Use means specifying it for and restricting it to that Use.
			use: see item #42 above
-	·		device class: The generic name for a group of device types. For example, all display stations belong to the same device class. A device class is different from a device type. A device type is composed of all devices that share a common model number or family (e.g. IBM 4331 printers).
67.		digital signature: see item #66 above	digital signature: see item #66 above
	second load module with a second digital signature	designating: see item #66 above	designating: see item #66 above
	different from the first digital	use: see item #42 above	use: see item #42 above
	signature, the second digital	device class: see item #66 above	device class: see item #66 above
-	signature designating the	tamper resistance: Making tampering more difficult and/or allowing	tamper resistance: The ability of a Tamper Resistant Barrier to
	second load module for use by a second	detection of tampering.	prevent Access, observation, and interference with information or
	device class having at least one of	In this definition, "tampering" means using (e.g., observing or altering) in	processing encapsulated by the barrier.
	tamper resistance and security level different from the at	any unauthorized manner, or interfering with authorized use.	For the purposes of the construction of "Tamper Resistance,"
	least one of tamper resistance and	digitally signing a second load	"Tamper/Tampering" is defined as: Using (e.g., observing or altering) in
	security level of the first device class;	module with a second digital signature different from the first	any unauthorized manner, or interfering with authorized use.
	jusi uerue cuiss,	digital signature, the second digital signature designating the second load module for use by a second device	For the purposes of the construction of "Tamper Resistance," "Access" is defined as set forth in item #4, above.
•		class having at least one of tamper resistance and security level different from the at least one of tamper	digitally signing a second load module with a second digital
		resistance and security level of the first device class: Normal English,	signature different from the first digital signature, the second digital
		incorporating the separately defined terms: generating a Digital Signature	signature designating the second load module for use by a second device

for the second load module, the Digital Signature Designating that the second Device Class. This element further requires that the second Device Class have a different Tamper Resistance or security level than the first Device Class.  Signify a different ("second") Load Module by using a different ("second") Load Module by using a different ("second") Load Module by using a different ("second") Load Module by using a different ("second") Load Module by Using a different ("second") Load Module by Using a different ("second") Load Module by Using a different ("second") Device Class that the signature & Load Module by Using a different ("second") Load Module by Using a different ("second") Load Module by Using a different ("second") Device Class that the signature & Load Module by Using a different ("second") Load Module By Using a different ("second") Load Module by Using a different ("second") Load Module by Using a different ("second") Load Module by Using a different ("second") Load Module by Using a different ("second Load Module by Using a different ("second Load Module by Using a different ("second Loa	'721 Claim 1	IT Construction	MS Construction
	'721 Claim 1	for the second load module, the Digital Signature Designating that the second load module is for use by a second Device Class. This element further requires that the second Device Class have a different Tamper Resistance or security level than the	class having at least one of tamper resistance and security level different from the at least one of tamper resistance and security level of the first device class: (1) Digitally Signing a different ("second") Load Module by using a different ("second") Load Module by using a different ("second") Digital Signature as the signature Key, which signing indicates to any and all devices in the second Device Class that the signor authorized and restricted this Load Module for Use by that device.  (2) No VDE device can perform any execution of any Load Module without such authorization. The method ensures that the Load Module cannot execute in a particular Device Class and ensures that no device in that Device Class has the Key(s) necessary to verify the Digital Signature.  (3) All devices in the first Device Class have the same persistent (not just occasional) and identified level of Tamper Resistance and the same persistent and identified level of Security. All devices in the second Device Class have the same persistent and identified level of Tamper Resistance and same persistent and identified level of Security (or both) for the first Device Class, is greater than or less than the identified level of Tamper Resistance or identified level of security (or both) for the first Device Class, is greater than or less than the identified level of Tamper Resistance or identified level of security for the second Device Class.  For the purposes of the construction of this phrase, a "Load Module" is defined as set forth in item #4 and "Key" is defined as set forth in item #4 and "Key" is defined as set forth in item

	'721 Claim 1	IT Construction	MS Construction
68.	distributing the first	use: see item #42 above	use: see item #42 above
	load module for use		
	by at least one	device class: see item #66 above	device class: see item #66 above
	device in the first		
	device class; and		
69.	distributing the	use: see item #42 above	use: see item #42 above
	second load module		
	for use by at least	device class: see item #66 above	device class: see item #66 above
1	one device in the		
	second device		
	class.		· ·



S. Patent No. 6,157,721, Asserted

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	<b>'721 Claim 34</b>	IT Construction	MS Construction
70.	34. A protected processing environment comprising:	The claim contains no requirement of a VDE  protected processing environment: see item #62 above  "Protected processing environment" appears in the preamble of this claim. InterTrust reserves the right to assert that it should not be defined, other than as requiring the individual claim elements.	Claim as a Whole: The "Protected Processing Environment" is part of and within VDE. (See item #86 for Microsoft's construction of VDE.)  protected processing environment: see item #62 above
71.	a first tamper resistant barrier having a first security level,	tamper resistant barrier: Hardware and/or software that provides Tamper Resistance.	tamper resistant barrier: (1) An active device that encapsulates and separates a Protected Processing Environment from the rest of the world.  (2) It prevents information and processes within the Protected Processing Environment from being observed, interfered with, and leaving except under appropriate conditions ensuring security.  (3) It also Controls external access to the encapsulated Secure resources, processes and information.  (4) A Tamper Resistant Barrier is capable of destroying protected information in response to Tampering attempts.  For the purposes of the construction of "Tamper Resistant Barrier,"  "Tamper/Tampering" is defined as set
			forth in item #67, above.
72.	a first secure execution space, and	secure: see item #3 above	secure: see item #3 above

	'721 Claim 34	IT Construction	MS Construction
73.	at least one arrangement within the first tamper resistant barrier that prevents the first secure execution space from executing the same executable accessed by a second secure execution space having a second tamper resistant barrier with a second security	tamper resistant barrier: see item #71 above  secure: see item #3 above  executable: A computer program that can be run, directly or through interpretation.	MS Construction  tamper resistant barrier: see item #71 above  secure: see item #3 above  executable: A cohesive series of machine code instructions in a format that can be loaded into memory and run (executed) by a connected processor.
	level different from the first security level.		

. Patent No. 5,920,861, Asserted 0

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	'861 Claim 58	IT Construction	MS Construction
74		The claim contains no requirement of	Claim as a whole: The recited method
74.	creating a first	a VDE.	is performed within a VDE. (See item
1	secure container,	u VDD.	#86 for Microsoft's construction of
	said method	secure container: see item #57 above	VDE.)
1		Secure container.	. = = .,
	including the		secure container: see item #57 above
	following steps;		
75.	_		
	descriptive data		
	structure, said		
	descriptive data		
	structure including		
	or addressing	457 obovo	secure container: see item #57 above
76.		secure container: see item #57 above	Secure container. See Rein #37 above
	information at least		·
	in part describing a		
	required or desired		
1	organization of a		·
	content section of		
	said first secure		
	container, and		secure container: see item #57 above
77.		secure container: see item #57 above	secure container. see item #37 above
	information at least		
1	in part specifying at		
	least one step	<del>.</del>	
	required or desired		
	in creation of said	,	
1	first secure		
	container;	#57 ab and	secure container: see item #57 above
78.	1 -	secure container: see item #57 above	Secure container. See item #37 above
	descriptive data		
	structure to organize		
	said first secure		
L	container contents;	, usa usa ab a a a a a a a a a a a a a a a a a	secure container: see item #57 above
79		secure container: see item #57 above	Secure container. See item #37 above
	information to at		
'	least in part		
	determine specific		}
	information		
	required to be		
	included in said first		
	secure container		
	contents; and		

	'861 Claim 58	IT Construction	MS Construction
80.	generating or identifying at least	control (controlling): see item #7 above	control (controlling): see item #7 above
	one rule designed to control at least one	aspect: see item #60 above	aspect: see item #60 above
	aspect of access to or use of at least a	use: see item #42 above	use: see item #42 above
	portion of said first secure container contents.	secure container: see item #57 above	secure container: see item #57 above

8. Patent No. 5,982,891, Asserted

ГТ	'891 Claim 1	IT Construction	MS Construction
81.	1. A method for	The claim contains no requirement of a	Claim as a whole: The recited
61.	using at least one	VDE.	method is performed within a VDE.
	resource processed	, , , , , , , , , , , , , , , , , , ,	(See item #86 for Microsoft's
	in a secure	secure: see item #3 above	construction of VDE.)
	***	Secure. See Rem #5 des to	ŕ
	operating		secure: see item #3 above
	environment at a		
	first appliance, said		
	method comprising:	securely (secure): see item #3 above	securely (secure): see item #3 above
82.	securely receiving a	Securery (secure). See Rem "5 doors	
	first entity's control	control: see item #4 above	control: see item #4 above
	at said first	Control. See item #4 above	CONTOIL SOUTH IN CASE 15
	appliance, said first		
1	entity being located		
	remotely from said		
	operating		
	environment and		
	said first appliance;	1 (1-1-1-1) 2 14 #2 above	securely (secure): see item #3 above
83.	securely receiving a	securely (secure): see item #3 above	securery (secure). See hell #3 above
	second entity's	#4-1	control: see item #4 above
	control at said first	control: see item #4 above	Control. See item #4 above
	appliance, said		
	second entity being		
	located remotely		
	from said operating		
	environment and		
	said first appliance,		
	said second entity		
	being different from		*
	said first entity; and	42 -1	securely (secure): see item #3 above
84.	securely processing	securely (secure): see item #3 above	securery (secure). see item #3 above
	a data item at said	,	
	first appliance, using		
	at least one resource,		
	including		coursely (coopers); see item #2 shove
85.		securely (secure): see item #3 above	securely (secure): see item #3 above
	at said first		use: see item #42 above
	appliance through	use: see item #42 above	use. See helli #42 audve
	use of said at least	, , , , , , , , , , , , , , , , , , , ,	soutrals are item #4 shave
1	one resource said	control: see item #4 above	control: see item #4 above
	first entity's control		annually applying at said first
	and said second	securely applying, at said first	securely applying, at said first
	entity's control to	appliance through use of said at least	appliance through use of said at least
	govern use of said	one resource said first entity's control	one resource said first entity's control
	data item.	and said second entity's control to	and said second entity's control to
		govern use of said data item: Normal	govern use of said data item: (1)
		English, incorporating the separately	Processing the resource (component
		defined terms: the first entity's Control	part of a first appliance's Secure

IT Construction		IT Construction	MS Construction
	<u>'891 Claim 1</u>	IT Construction	
		and the second entity's Control are	Operating Environment) within the
		Securely applied to govern Use of the	Secure Operating Environment's
		data item, the act of Securely applying	special-purpose Secure Processing
		involving use of the resource.	Unit (SPU) to execute the first
			Control and second Control in
			combination within the SPU.
		·	(2) This execution of these Controls
			governs (Controls) all Use of the
			data item by all users, processes, and
			devices.
			(3) The processing of the resource
l			and execution of the Controls cannot
			be observed from outside the SPU
			and is performed only after the
1			integrity of the resource and
		·	Controls is cryptographically
			verified.
		,	(4) A Secure Processing Unit is a
			special-purpose unit isolated from the
1			rest of the world in which a hardware
			Tamper Resistant Barrier
			encapsulates a processor and internal
			Secure memory.
			(5) The processor cryptographically
			verifies the integrity of all code
			loaded from the Secure memory
			prior to execution, executes only the
			code that the processor has
	İ		authenticated for its Use, and is
1			otherwise Secure.
	l		<u></u>



Patent No. 5,892,900, Asserted C

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n:	155

	'900 Claim 155	IT Construction	MS Construction
86.	155. A virtual	Virtual Distribution Evironment: This	Claim as a Whole: The "virtual
	distribution	term is contained in the preamble of	distribution environment" is VDE.
	environment	the claim and should not be defined,	Virtual Distribution Environment:
;	comprising	other than as requiring the individual	(1) Data Security and Commerce
		claim elements.	World: InterTrust's February 13,
			1995, patent application described as
		Without waiving its position that no	its "invention" a Virtual Distribution
		separate definition is required, if	Environment ("VDE invention") for
		required to propose such a definition,	securing, administering, and auditing
		InterTrust proposes the following:	all security and commerce digital
		secure, distributed electronic transaction management and rights	information within its multi-node
		protection system for controlling the	world (community). VDE guarantees
		distribution and/or other usage of	to all VDE "participants" identified in
		electronically provided and/or stored	the patent application that it will limit
		information.	all Access to and Use (i.e., interaction)
			of such information to authorized activities and amounts, will ensure any
		•	requested reporting of and payment
1			for such Use, and will maintain the
			availability, secrecy, integrity, non-
1			repudiation and authenticity of all
1			such information present at any of its
1			nodes (including protected content,
			information about content usage, and
ľ			content Controls.).
1			VDE is Secure against at least the
	,		threats identified in the Feburary
1			1995, patent application to this
			availability (no user may delete the
		r.	information without authorization),
			secrecy (neither available nor disclosed to unauthorized persons or
			processes), integrity (neither
1			intentional nor accidental alteration),
			non-repudiation (neither the receiver
			can disavow the receipt of a message
.		·	nor can the sender disavow the
			origination of that message) and
1			authenticity (asserted characteristics
			are genuine). VDE further provides
			and requires the components and
			capabilities described below.
			Anything less than or different than
			this is not <b>VDE</b> or the described "invention."
			mychuon.
L	<u> </u>	<u>l.,</u>	<del></del>

'900 Claim 155	IT Construction	MS Construction
		(2) Secure Processing Environment: At each node where VDE-protected information is Accessed, Used, or assigned control information, VDE requires a Secure Processing Environment (as set forth in item #6).
		(3) <u>VDE Controls</u> : <b>VDE Allows</b> Access to or <b>Use</b> of protected information and processes only through execution of (and satisfaction of the requirements imposed by) <b>VDE</b> Control(s).
		(4) <u>VDE Secure Container</u> : See construction of <b>Secure Container</b> (see item #57).
		(5) Non-Circumventable: VDE is non-circumventable (sequestered). It intercepts all attempts by any and all users, processes, and devices, to Access or Use, such as observing, interfering with, or removing) protected information, and prevents all such attempts other than as allowed by execution of (and satisfaction of all requirements imposed by) associated VDE Controls within Secure Processing Environment(s).
		(6) Peer to Peer: VDE is peer-to-peer. Each VDE node has the innate ability to perform any role identified in the patent application (e.g., end user, content packager, distributor, Clearinghouse, etc.), and can protect information flowing in any direction between any nodes. VDE is not client-server. It does not predesignate and restrict one or more nodes to act solely as a "server" (a provider of information (e.g., authored content, control information, etc.) to other nodes) or "client" (a requestor of such information). All types of protected-content transactions can proceed without requiring interaction with any server.

•		
'900 Claim 155	IT Construction	MS Construction
		(7) Comprehensive Range of Functions: VDE comprehensively governs (Controls) all security and commerce activities identified in the patent application, including (a) metering, budgeting, monitoring, reporting, and auditing information usage, (b) billing and paying for information usage, and (c) negotiating, signing and enforcing contracts that establish users' rights to Access or Use information.
		(8) <u>User-Configurable</u> : The specific protections governing (Controlling) specific VDE-protected information are specified, modified, and negotiated by VDE's users. For example, VDE enables a consumer to place limits on the nature of content that may be Accessed at her node (e.g., no R-rated material) or the amount of money she can spend on viewing certain content, both subject only to other users' senior Controls.
		(9) General Purpose; Universal: VDE is universal as opposed to being limited to or requiring any particular type of appliance, information, or commerce model. It is a single, unified standard and environment within which an unlimited range of electronic rights protection, data security, electronic currency, and banking applications can run.
		(10) Flexible: VDE is more flexible than traditional information security and commerce systems. For example, VDE allows consumers to pay for only the user-defined portion of information that the user actually uses, and to pay only in proportion to any quantifiable VDE event (e.g., for only the number of paragraphs displayed from a book), and allows editing the content in VDE containers while maintaining its security.

		YM C	MS Construction
	<u>'900 Claim 155</u>	IT Construction	MS Construction  For the purposes of the construction of "VDE," "Secure Processing Environment" and "Access" are defined as set forth in item #4, above.
87.	a first host processing environment comprising	host processing environment: This term is explicitly defined in the claim and therefore needs no additional definition. It consists of those elements listed in the claim.  Without waiving its position that no separate definition is required, if required to propose such a definition, InterTrust proposes the following: a Protected Processing Environment incorporating software-based security.	host processing environment: (1) A processing environment within a VDE node which is not a Secure Processing Environment.  (2) A "host processing environment" may either be "secure" or "not secure."  (3) A "secure host processing environment" is a self-contained Protected Processing Environment, formed by loaded, Executable programming executing on a general purpose CPU (not a Secure Processing Unit) running in protected (privileged) mode.  (4) A "non-secure host processing environment" is formed by loaded, Executable programming executing on a general purpose CPU (not a Secure Processing Unit) running in user mode.  For the purposes of the construction of "Host Processing Environment," a "Secure Processing Environment" is defined as set forth in item #4, above.
88.	a central processing unit;		
89.	main memory operatively connected to said central processing unit;		·
90.	mass storage operatively connected to said central processing unit and said main memory;		

	<u>'900 Claim 155</u>	IT Construction	MS Construction
91.	said mass storage storing tamper resistant software designed to be loaded into said main memory and executed by said central processing unit, said tamper resistant software comprising:		
		dorives: Normal English: obtains	derives: To retrieve from a specified
92.	machine check programming which derives information from one or more aspects of said host processing environment,	derives: Normal English: obtains, receives or arrives at through a process of reasoning or deduction. In the context of computer operations, the "process of reasoning or deduction" constitutes operations carried out by the computer.	source.
		aspect: see item #60 above	aspect: see item #60 above
		host processing environment: see item #87 above	host processing environment: see item #87 above
		derives information from one or more aspects of said host processing environment: Normal English, incorporating the separately defined terms: Derives (including creates) information based on at least one Aspect of the previously referred to Host Processing Environment.	derives information from one or more aspects of said host processing environment: (1) Deriving from the Host Processing Environment hardware one or more values that uniquely and persistently identify the Host Processing Environment and distinguish it from other Host Processing Environments. (2) The "one or more aspects of said host processing environment" are persistent elements or properties of the Host Processing Environment itself that are capable of being used to distinguish it from other environments, as opposed to, e.g., data or programs stored within the mass storage or main memory, or processes executing within the Host Processing Environment.
93.	_		
	locations storing said information;		

	'900 Claim 155	IT Construction	MS Constructi n
94.		derive: see item #92 above  compares: Normal English: examines for the purpose of noting similarities and differences. "Comparison" refers to the act of comparing.	derive: see item #92 above  compares: A processor operation that evaluates two quantities and sets one of three flag conditions as a result of the comparison – greater than, less than, or equal to.
	information to information previously stored in said one or more storage locations, and		
95.	generates an indication based on the result of said comparison; and	comparison (compares): see item #94 above	comparison (compares): see item #94 above
96.	programming which takes one or more actions based on the state of said indication;		
97.	said one or more actions including at least temporarily halting further processing.		



5. Patent No. 5,917,912, Asserted

m:	8

	'912 Claim 8	IT Construction	MS Construction
98.	8. A process	The claim contains no requirement of	Claim as a whole: The recited method
	comprising the	a VDE.	is performed within a VDE. (See item
	following steps:		#93 for Microsoft's construction of
		·	VDE.)
99.	accessing a first	containing: see item #58 above	containing: see item #58 above
	record containing	component assembly: Components	component assembly: (1) A cohesive
	information directly	are code and/or data elements that are	Executable component created by a
	or indirectly	independently deliverable. A	channel which binds or links together
	identifying one or	Component Assembly is two or more	two or more independently deliverable
	more elements of a	components associated together.	Load Modules, and associated data.
	first component	Component Assemblies are utilized to	(2) A Component Assembly is
	assembly,	perform operating system and/or	assembled, and executes, only within a
		applications tasks.	VDE Secure Processing Environment.
			(3) A Component Assembly is
			assembled dynamically in response to, and to service, a particular content-
			related activity (e.g., a particular Use
		·	request).
			(4) Each VDE Component Assembly
			is assigned and dedicated to a
			particular activity, particular user(s),
		·	and particular protected information.
			(5) Each Component Assembly is
			independently assembled, loadable
			and deliverable vis-à-vis other
			Component Assemblies.
			(6) The dynamic assembly of a
			Component Assembly is directed by a "blueprint" Record Containing
			control information for this particular
			activity on this particular information
			by this particular user(s).
			(7) Component Assemblies are
			extensible and can be configured and
		·	reconfigured (modified) by all users,
			and combined by all users with other
			Component Assemblies, subject only
			to other users' "senior" Controls.
			For the purposes of the construction of
			"Component Assembly," "Load
			Module," "Secure Processing Environment" and "Record" are
			defined as set forth in item #4 above.
100.	at least one of said	executable programming (executable):	executable programming: A cohesive
	elements including	see item #73 above	series of machine code instructions,
L	at least some	LAIM CONSTRUCTION STATEMEN	comprising a computer program, in a

<u>'912 Clair</u>	<u>n 8</u>	IT Construction	MS Construction
executable programmin	g,		format that can be loaded into memory and run (executed) by a connected processor. A "computer program" is a complete series of definitions and instructions that when executed on a computer will perform a required or requested task.
101. at least one of elements constituting a module,	load		
102. said load mod including executable programmin a header;	see item	ole programming (executable): #73 above	executable programming: see item #100 above
103. said header including an execution spaidentifier identifying at one aspect of execution spairequired for u and/or execut the load module associated with header;	least use: see an identifying execution of and/or explicitly and Aspect execution for the local control of the loc	see item #28  see item #59 above  item #42 above  ng at least one aspect of an nespace required for use execution of the load module:  English, incorporating the lay defined terms: identifying ct (e.g. security level) of an nespace that is needed in order to be used.	aspect: see item #59 above  use: see item #42 above  identifying at least one aspect of an execution space required for use and/or execution of the load module:  (1) Defining fully, without reference to any other information, at least one of the persistent elements or properties (Aspects) (that are capable of being used to distinguish it from other environments of an execution space) that are required for any Use, and/or for any execution, of the Load Module.  (2) An execution space without all of those required aspects is incapable of making any such execution and/or other Use (e.g., Copying, displaying, printing) of the Load Module.  For the purposes of the construction of this phrase, a "Load Module" is defined as set forth in item #4, above

	'912 Claim 8	IT Construction	MS Construction
104.	said execution	identifier: see item #28	identifier: see item #28
	space identifier		·
	provides the		
	capability for		
	distinguishing		
	between execution	,	
	spaces providing a		
	higher level of		
	security and		·
	execution spaces		· ·
	providing a lower		
	level of security;		
105.		·	
	information to		
	identify and locate		·
	said one or more		
	elements;		
106.	•		•
	located one or more		
107	elements; securely	securely: see item #3 above	securely: see item #3 above
107.	assembling said one	securery. See item #5 doors	
	or more elements to	component assembly: see item #98	component assembly: see item #98
ł	form at least a	above	above
	portion of said first		
	component		
	assembly;		
108.		executable programming (executable):	executable programming: see item
	some of said	see item #73 above	#100 above
	executable		
l	programming; and		
109.			
	record for validity		
	prior to performing		
	said executing step.		<u> </u>

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	'912 Claim 35	IT Construction	MS C nstruction		
110.		The claim contains no requirement of	Claim as a whole: The recited method		
	comprising the	a VDE.	is performed within a VDE. (See item		
	following steps:		#86 for Microsoft's construction of		
			VDE.)		
111.	at a first				
	processing				
	environment		•		
	receiving a first				
1	record from a				
	second processing				
	environment				
	remote from said				
	first processing				
	environment;				
112.	said first record	secure container: see item #57 above	secure container: see item #57 above		
	being received in a		·		
	secure container;				
113.	said first record	containing: see item #57 above	containing: see item #57 above		
	containing		11		
	identification	component assembly: see item #98	component assembly: see item #98		
	information	above	above		
	directly or				
	indirectly				
	identifying one or				
	more elements of a				
	first component				
	assembly;	11 (avagutable):	executable programming: see item		
114.	at least one of said	executable programming (executable): see item #73 above	#100 above		
	elements including	see item #73 above	#100 above		
	at least some	·			
	executable		·		
115	programming;	component assembly: see item #98	component assembly: see item #98		
115.	said component assembly allowing	above	above		
	access to or use of				
		use: see item #42 above	use: see item #42 above		
	specified information;	disc. See Rein # 12 doore			
116		secure container: see item #57 above	secure container: see item #57 above		
116.	container also	Secure container. See from #37 doore			
j	including a first of				
1	said elements;		·		
117	accessing said first				
117.	record;				
110	using said				
118.	identification		·		
1	identification				

information to identify and locate

	<u> '912 Claim 35</u>	IT Construction	MS Constructi n
T	said one or more		
	elements;		
119.	said locating step		
	including locating	·	
l	a second of said		
l	elements at a third		
	processing		
	environment		
	located remotely		
	from said first		
	processing		
	environment and		
	said second		
	processing		· ·
	environment;		
120.	accessing said		
	located one or		
	more elements;		·
121.	said element		
	accessing step		·
	including		
	retrieving said		
	second element		
	from said third		
	processing		
	environment;	1. ( about	securely (secure): see item #3 above
122.	securely	securely (secure): see item #3 above	securery (secure). see item #3 above
	assembling said	sammanant assambly, sag itam #08	component assembly: see item #98
	one or more	component assembly: see item #98 above	above
	elements to form	above	above
	at least a portion of said first		
·			
	component assembly		
	specified by said		
	first record; and		
123.	executing at least	executable programming (executable):	executable programming: see item
12.	some of said	see item #73 above	#100 above
	executable		
	programming,		
124.	said executing step		
127.	taking place at said		·
	first processing		
	environment.		
	environment.		<u> </u>